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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-19-12** **Date: 22-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP,
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Shivanahalli in Ward No.01 of Yelahanka Sub Division.
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, Floor mill road, Nagashettyhalli, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/44/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-12 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.4	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-19-12** **Date: 21-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Shivanahalli in Ward No.01 of Yelahanka Sub Division.
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, Floor mill road, Nagashettyhalli, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/44/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-12 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5644	5889	39.3	60.7	30-70
4	10 mm	4566	10455	69.7	30.3	10-35
5	4.75 mm	4288	14743	98.3	1.7	0-5
6	Pan	257	15000	100.0	0	---

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TEST RESULTS OF STEEL

Lab ID	:	CP-2018-03-19-12 **Date: 21-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Shivanahalli in Ward No.01 of Yelahanka Sub Division.
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, Floor mill road, Nagashettyhalli, Bangalore
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/44/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-12 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	20-03-18

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.612	528	615	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.885	535	642	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	563	672	19.0%	Satisfactory	Satisfactory

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R KARTHIK RECHAN
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Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

End of Report

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2018-03-26-24 Date: 26-03-18
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Shivanahalli in Ward No.01 of Yelahanka Sub Division.
Agency	:	Sri.B.R.Dananjaya, No.22, Gundappa Road, 3rd Cross, Floor mill road, Nagashettyhalli, Bangalore
Customer Reference	:	EE(YNK.D)E-PMT-02/W.O/44/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-18
Sample ID No	:	2018-03-26-24/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	26-03-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.D/Wtr Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	3.2	96.9	95-100
22.4	2259	2574	25.7	74.3	60-80
11.2	2179	4753	47.5	52.5	40-60
4.75	2251	7004	70.0	30.0	25-40
2.36	1490	8494	84.9	15.1	10-30
0.6	600	9094	90.9	9.1	8-22
0.075	906	10000	100.0	0.0	0-8

Note:-

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K.KARTHIK RECHAN
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Quality Manager

CIVIL PRO BANGALORE Sig Date

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End of Report

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